- 1 INSIDE AN ORANGE AMOEBA. WHERE DOES THE WHITE MEET THE
- 2 ORANGE HERE?
- 3 A. WELL, IT'S EXACTLY THE POINT WHERE THE ORANGE CEASES
- 4 AND THE WHITE BEGINS.
- 5 Q. WELL, LET ME TRY TO APPROACH THIS A SLIGHTLY DIFFERENT
- 6 WAY, IF I MIGHT.
- 7 NOW, YOU MADE REFERENCE TO O.E.T. TECHNICAL
- 8 BULLETIN NUMBER 69. REMEMBER THAT?
- 9 A. YES, SIR.
- 10 O. AND THAT'S THE DOCUMENT IN WHICH YOU SAY THE F.C.C. HAS
- 11 ADOPTED THE LONGLEY-RICE INPUT PARAMETERS THAT YOU'VE
- 12 EMPLOYED FOR THE PURPOSES OF THIS GROUP EXERCISE IN THIS
- 13 CASE, CORRECT?
- 14 A. YES, SIR.
- 15 Q. NOW, IN O.E.T. BULLETIN NUMBER 69 IS A DESCRIPTION OF
- 16 HOW THE LONGLEY-RICE METHOD IS TO BE EMPLOYED AT LEAST FOR
- 17 THE PURPOSES THAT ARE THE SUBJECT OF THAT TECHNICAL
- 18 BULLETIN, RIGHT?
- 19 A. YES, SIR.
- 20 Q. AND CORRECT ME IF I'M WRONG, AND I'LL BE HAPPY TO SHOW
- 21 YOU THE DOCUMENT IF YOU'RE NOT FAMILIAR ENOUGH WITH IT, BUT
- 22 THE WAY IT DESCRIBES THE USE OF THE LONGLEY-RICE MODEL
- 23 THERE, BASICALLY WHAT IT SAYS IS YOU TAKE THE AREA YOU'RE
- 24 GOING TO SURVEY AND YOU BREAK IT UP INTO CELLS, RIGHT?
- 25 ISN'T THAT THE FIRST SORT OF TECHNICAL STEP THAT THE

- 1 LONGLEY-RICE MODEL FOLLOWS?
- 2 A. YES, SIR.
- 3 Q. AND CELLS ARE SOME SMALL, SUBGEOGRAPHIC UNIT COMPRISED
- 4 WITHIN THE AREA YOU'RE SURVEYING, RIGHT?
- 5 A. YES, SIR.
- 6 Q. FOR GREENSBORO, HOW MANY CELLS WOULD BE INVOLVED?
- 7 A. OH, IT BE THOUSANDS OF THEM.
- 8 Q. OKAY. AND IS THERE SOME UNIFORM DIMENSION TO A CELL?
- 9 A. YES.
- 10 O. WHAT IS IT?
- 11 A. WELL, THAT DIMENSION CAN BE CHOSEN. IT CAN BE EITHER
- 12 IN TERMS OF DISTANCE, KILOMETERS, PORTIONS OF A KILOMETER;
- 13 OR IT CAN BE IN TERMS OF SO MANY SECONDS OF LATITUDE AND SO
- 14 MANY SECONDS OF LONGITUDE.
- 15 O. AND DOES THE F.C.C. ADDRESS THE CELL SIZE TO BE USE IN
- 16 O.E.T. TECHNICAL BULLETIN NUMBER 69?
- 17 A. I DON'T THINK IT DOES. I DON'T REMEMBER THAT IT DOES.
- 18 THE -- ALTHOUGH THE -- BY CHECKING WITH F.C.C. PERSONNEL,
- 19 YOU CAN FIND OUT WHAT SIZE CELL THAT THEY USED.
- 20 O. BUT YOU DON'T THINK IT'S SET FORTH IN THE TECHNICAL
- 21 BULLETIN?
- 22 A. I DON'T THINK IT IS.
- 23 Q. WHEN MR. BRANDENBURG CREATED HIS VARIOUS DOTLESS
- 24 LONGLEY-RICE MAPS FOR THE PURPOSES OF THIS EXERCISE, WHAT
- 25 CELL SIZE DID HE USE?

- A. IT WAS -- HIS CELL SIZE, ALTHOUGH IT WAS IN THE
- 2 LATITUDE AND LONGITUDE, I FIGURED OUT WAS EQUIVALENT TO
- 3 ABOUT 8/10THS OF A KILOMETER ON A SIDE.
- 4 O. 8/10THS OF A KILOMETER SQUARE?
- 5 A. YES. WELL -- YES. WELL -- EXCUSE ME. HIS ISN'T
- 6 PRECISELY SQUARE BECAUSE HE USED LATITUDE AND LONGITUDE, AND
- 7 THEY -- THOSE AREN'T STRICTLY PARALLEL LINES. BUT IT'S
- 8 APPROXIMATELY AN 8/10TH KILOMETER SQUARE.
- 9 Q. IS THAT THE SAME SIZE THAT THE F.C.C. PROSCRIBES?
- 10 A. THE F.C.C. IN ITS WORK ACTUALLY USED A SOMEWHAT LARGER
- 11 GRID SIZE THAN THAT.
- 12 Q. SO MR. BRANDENBURG USED A DIFFERENT VARIATION THEN OF
- 13 THE LONGLEY-RICE INPUT PARAMETER WITH RESPECT TO CELL SIZE
- 14 THAN YOU SAY THE F.C.C. PROSCRIBES, CORRECT?
- 15 A. HE USED A FINER GRADATION, YES.
- 16 Q. RATHER THAN FINER OR COARSER, IT'S DIFFERENT, CORRECT?
- 17 A. CORRECT, YES, OF COURSE.
- 18 Q. OKAY. NOW, TAKING THIS TO THE NEXT STEP, IF I
- 19 UNDERSTAND HOW THIS MODEL WORKS, YOU HAVE ALL THESE LITTLE
- 20 CELLS, WHETHER THEY BE 8/10THS OF A KILOMETER SQUARE OR
- 21 COARSER, AND THE NEXT THING YOU HAVE TO DO IS FIGURE OUT ONE
- 22 | SINGLE POINT WITHIN THE CELL, WHICH WILL BE YOUR CELL
- 23 REFERENCE POINT, RIGHT?
- 24 A. CORRECT.
- 25 Q. AND ONCE -- HOW DO YOU FIGURE THAT POINT OUT?

- 1 A. THAT'S THE CENTER POINT OF THE CELL, AND THAT'S
- DETERMINED BY THE SOFTWARE OF THE PROGRAM.
- 3 O. THE GEOGRAPHIC CENTER?
- 4 A. THE GEOGRAPHIC CENTER.
- 5 Q. IS THAT THE ONLY WAY IT'S DONE?
- 6 A. WELL, THERE ARE DIFFERENT APPROACHES. YOU CAN --
- 7 EITHER YOU CAN DIVIDE THE -- YOUR AREA UP INTO CELLS, OR YOU
- 8 CAN USE RADIAL LINES RUNNING FROM THE TRANSMITTER. IN MY
- 9 OWN WORK, I USUALLY USE RADIAL LINES AND I'LL SPACE THEM AS
- 10 CLOSE AS ONE DEGREE APART. AND AS A MATTER OF FACT, THAT IS
- 11 THE WAY THAT I CHECKED MR. BRANDENBURG'S WORK BY USING A
- 12 | SLIGHTLY DIFFERENT APPROACH OF EMPLOYING RADIAL LINES RATHER
- 13 THAN THE CELL APPROACH THAT HE USED, AND ENDED UP WITH THE
- 14 SAME RESULT.
- 15 Q. NOW, THE TECHNICAL BULLETIN DOESN'T TALK ABOUT USING
- 16 RADIAL LINES, DOES IT?
- 17 A. NO, I DON'T BELIEVE IT DOES. IT TALKS IN TERMS OF
- 18 GRIDS.
- 19 Q. IT TALKS IN TERMS OF CELLS, RIGHT?
- 20 A. CELLS, CELLS.
- 21 Q. WHICH IS DIFFERENT THAN RADIAL LINES, RIGHT?
- 22 A. YES, UM-HUM.
- 23 Q. OKAY. NOW, WE WERE TALKING ABOUT FIGURING OUT WHAT
- 24 REFERENCE POINT YOU USE IN EACH PARTICULAR CELL IF YOU'RE
- 25 GOING TO FOLLOW THE F.C.C. METHOD AS OPPOSED TO YOUR RADIAL

- 1 REFINEMENT. AND YOU SAID YOU USED THE GEOGRAPHIC CENTER.
- 2 MEAN YOU'VE GOT SOMETHING THAT'S -- JUST TO PICK AN
- 3 EXAMPLE -- 8/10THS OF A KILOMETER SQUARE AND YOU FIND THE
- 4 MIDDLE, IS THAT IT?
- 5 A. THAT'S MY UNDERSTANDING, YES.
- 6 | Q. AND IS THAT HOW MR. BRANDENBURG DID IT?
- 7 A. THAT'S MY UNDERSTANDING, YES.
- 8 Q. WHAT'S THE SOURCE OF YOUR UNDERSTANDING AS TO HOW HE
- 9 DID IT IN THAT RESPECT?
- 10 A. BECAUSE I KNOW HE USED CELLS AND THAT IS THE APPROACH
- 11 THAT IS USED FOR CELLS.
- 12 O. ISN'T THERE AN ALTERNATIVE APPROACH THAT IS USED FROM
- 13 TIME TO TIME FOR CELLS?
- 14 A. NO, I'M NOT SURE. ALTERNATIVE FROM MY VIEWPOINT IS THE
- 15 RADIAL LINES.
- 16 Q. WELL, LET'S SAY YOU'RE WORKING WITH CELLS AND THE
- 17 QUESTION IS WHAT'S YOUR REFERENCE POINT WITHIN A PARTICULAR
- 18 CELL. YOU'VE SAID YOU PICKED THE GEOGRAPHIC CENTER. ISN'T
- 19 THERE ANOTHER WAY TO DO IT?
- 20 A. I'M NOT SURE.
- 21 O. DOESN'T THE F.C.C. RECOGNIZE THE USE OF SOME KIND OF
- 22 POPULATION CENTROID REFERENCE POINT WITHIN A PARTICULAR
- 23 CELL?
- 24 A. WELL, NOW YOU'RE TALKING ABOUT SOMETHING ELSE. NOW
- 25 YOU'RE TALKING -- NOW YOU'RE TALKING ABOUT CENSUS DATA. AND

- 1 WHAT THE CENSUS DATA IS BASED UPON IS THE CENSUS BLOCKS.
- 2 AND FOR -- IN USING THE CENSUS DATA TO DETERMINE POPULATION
- 3 IN AREA, YOU USED THE CENTROID OF THE CENSUS BLOCK.
 - AND --
- 5 Q. WELL, I WANT TO MAKE SURE I'M TALKING ABOUT THE SAME
- 6 THING. I WANT TO DISCUSS WITH YOU HOW YOU FIGURE OUT WHAT
- 7 POINT WITHIN A CELL TO BE A REFERENCE POINT FOR USE OF A
- 8 LONGLEY-RICE MODEL. OKAY? IS THAT CLEAR?
- 9 A. YES.

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- 10 Q. YOU'VE SAID YOU USE THE GEOGRAPHIC MIDPOINT, RIGHT?
- 11 A. THE GEOGRAPHIC MIDPOINT, THAT'S RIGHT.
- 12 O. NOW, AS A MATTER OF FACT, THAT'S NOT THE F.C.C.'S
- 13 PREFERRED METHOD, IS IT?
- 14 A. NO, I BELIEVE IT IS. AND YOU'RE -- YOU MIX UP TWO
- 15 THINGS. IN DETERMINING POPULATION, WHICH IS AN IMPORTANT
- 16 PART OF WHAT THE F.C.C. IS DOING, THEY USE THE CENSUS BLOCKS
- 17 AND THE CENTROIDS OF THOSE BLOCKS. AND THEY -- THE CENTROID
- 18 IS NOT THE GEOGRAPHIC CENTER, BUT IT'S BASED UPON THE
- 19 POPULATION DENSITY IN THE BLOCK.
- 20 Q. WELL, I'M HAVING A LITTLE DIFFICULTY FOLLOWING YOU AND
- 21 I APOLOGIZE FOR THAT. YOU STARTED OUT BY SAYING YOU FIND
- 22 THE GEOMETRIC CENTER, THAT'S HOW THE F.C.C. PREFERS YOU DO
- 23 IT, RIGHT?
- 24 A. INSOFAR AS PROPAGATION CALCULATIONS ARE CONCERNED,
- 25 MEANING THAT THAT DETERMINATIONS OF WHERE A PARTICULAR FIELD

- 1 STRENGTH IS EXCEEDED.
- 2 Q. LET ME READ TO YOU --
- 3 A. AND THEN YOU SWITCHED TO CENSUS, AND THAT'S SOMETHING
- 4 ELSE AGAIN.
- 5 Q. WELL, LET'S SEE IF THAT'S REALLY TRUE. I'M GOING TO
- 6 READ FROM YOU O.E.T. BULLETIN NUMBER 69, MR. OLSON. IT'S
- 7 PLAINTIFFS' EXHIBIT 333. AND THERE'S A SECTION -- PERHAPS I
- 8 OUGHT TO SHOW THIS TO YOU, MR. COHEN, TO BE FAIR.
- 9 A. I HAVE A COPY --
- 10 Q. ALL RIGHT.
- 11 A. -- SOMEPLACE HERE.
- 12 Q. I THINK IT'S BEEN ADMITTED INTO EVIDENCE.
- 13 LET ME KNOW WHEN YOU FIND IT AND I'LL HELP YOU
- 14 FIND THE RIGHT PASSAGE.
- MR. SPECTOR: HE'S GOT IT.
- 16 BY MR. SCHWARTZ:
- 17 Q. TAKE A LOOK AT PAGE SEVEN, PLEASE. DO YOU HAVE THAT?
- 18 A. I HAVE IT.
- 19 Q. DO YOU SEE THE SECTION APPLICATION OF THE LONGLEY-RICE
- 20 METHODOLOGY?
- 21 A. I DO.
- 22 Q. IT SAYS THE AREA SUBJECT TO CALCULATION IS DIVIDED INTO
- 23 RECTANGULAR CELLS, RIGHT?
- 24 A. IT DOES.
- 25 Q. AND THEN IT GOES ON TO FIGURE OUT THE POINT CHOSEN FOR

- 1 PURPOSES OF MEASUREMENT. AND THEN IT SAYS FOR CELLS WITH
- 2 POPULATION -- AND AFTER ALL, THAT'S WHAT WE'RE, BY
- 3 DEFINITION, DISCUSSING TODAY -- THE POINT CHOSEN BY THE
- 4 F.C.C. COMPUTER PROGRAM IS THE POPULATION CENTROID, RIGHT?
- 5 A. RIGHT.
- 6 Q. OTHERWISE, WHICH IS TO SAY IF THERE IS NO POPULATION.
- 7 IT'S THE GEOMETRIC CENTER, RIGHT?
- 8 A. RIGHT.
- 9 Q. SO AS A MATTER OF FACT, WHAT THE F.C.C. SUGGESTS BE
- 10 DONE IS YOU FIND THE POPULATION CENTROID FOR THE PURPOSES OF
- 11 YOUR MEASUREMENT, NOT THE GEOMETRIC CENTER, AT LEAST WHERE
- 12 PEOPLE ARE LIVING, RIGHT?
- 13 A. BUT YOU HAVE TO LOOK AT THE PURPOSE. THE --
- 14 THE COURT: WELL, HOW ABOUT ANSWERING HIS QUESTION
- 15 FIRST, YES OR NO OR I CAN'T ANSWER IT YES OR NO.
- THE WITNESS: I CAN'T ANSWER IT YES OR NO, YOUR
- 17 HONOR. IT'S NECESSARY TO RELATE THIS TO THE PROPER CONTEXT
- 18 OF THIS PARAGRAPH.
- THE COURT: WELL, BUT TRY.
- 20 REPEAT THE QUESTION, MADAM COURT REPORTER, PLEASE.
- 21 THE COURT REPORTER: "QUESTION: SO AS A
- 22 MATTER OF FACT, WHAT THE F.C.C. SUGGESTS BE DONE
- 23 IS YOU FIND THE POPULATION CENTROID FOR THE
- 24 PURPOSES OF YOUR MEASUREMENT, NOT THE GEOMETRIC
- 25 CENTER, AT LEAST WHERE PEOPLE ARE LIVING, RIGHT?

- 1 A. I HAVE TO RESPOND THIS WAY. IF YOUR INTEREST IS
- 2 POPULATION, THEN YOU USE THE POPULATION CENTROID. IF YOU
- 3 JUST HAVE A GENERAL INTEREST IN FIELD STRENGTH, REGARDLESS
- 4 OF WHETHER PEOPLE LIVE THERE OR NOT, YOU USE THE GEOMETRIC
- 5 CENTER.
- 6 Q. WELL, IN THIS CASE, IF I UNDERSTAND THE COMPOSITE
- 7 EFFORT THAT YOU AND YOUR VARIOUS SUPERVISEES WERE WORKING
- 8 ON, THE IDEA WAS -- WITHOUT SUGGESTING WE ACCEPT IT -- WAS
- 9 TO FIGURE OUT WHERE PEOPLE LIVED WHERE SIGNALS GO, RIGHT?
- 10 THAT'S A FAIR SUMMARY, ISN'T IT?
- 11 A. NO.
- 12 Q. WELL, ISN'T THE WHOLE POINT OF THIS DOT EXERCISE TO TRY
- 13 TO PLOT LOCATIONS OF PRIMETIME 24 SUBSCRIBERS ALLEGEDLY ON
- 14 SIGNAL STRENGTH MAPS?
- 15 A. DATAWORLD WAS DIRECTED TO CREATE LONGLEY-RICE MAPS
- 16 WHICH SHOW WHERE TO EXPECT PARTICULAR SIGNAL INTENSITIES ARE
- 17 GREATER.
- 18 Q. AND IT SOUNDS LIKE DATAWORLD DIDN'T DO IT THE WAY THE
- 19 F.C.C. PROSCRIBES.
- 20 A. THEY DID. OTHERWISE, IT IS GEOMETRIC CENTER. IT IS
- 21 ONLY WHERE YOU ARE LOOKING FOR POPULATION THAT YOU USE THE
- 22 | POPULATION CENTROID.
- 23 Q. THIS DOESN'T SAY THAT.
- 24 A. WELL --
- 25 Q. IT SAYS YOU GOT TO FIND A REFERENCE POINT IN EACH

- 1 PARTICULAR CELL. IT SAYS IF THE CELLS GOT PEOPLE, YOU FIND
- 2 THE POPULATION CENTROID. IT'S NOT AMBIGUOUS, IS IT? YOU
- 3 DIDN'T DO IT, RIGHT?
- 4 A. I CAN'T AGREE WITH YOU AT ALL, MR. SCHWARTZ. YOU HAVE
- 5 TO LOOK AT THIS PARAGRAPH AND SEE WHAT IS THE INTENT.
- 6 O. IT SAYS APPLICATION --
- 7 A. MAY I FINISH?
- 8 THE COURT: ONE AT A TIME, PLEASE.
- 9 THE WITNESS: I WOULD LIKE TO FINISH.
- 10 THE COURT: YES.
- 11 A. THE POINT SO DETERMINED, WHICH IS THE POPULATION
- 12 CENTROID, REPRESENTS THE CELLS IN ALL SUBSEQUENT SERVICE AND
- 13 INTERFERENCE CALCULATIONS. WE WEREN'T MAKING SERVICE AND
- 14 INTERFERENCE CALCULATIONS IN THE SENSE THAT THE F.C.C.
- 15 WAS -- IS DESCRIBING HERE.
- 16 Q. SO YOU WERE USING LONG -- I'M SORRY.
- 17 A. WE ARE LOOKING FOR THOSE GENERAL AREAS WITHOUT REGARD
- 18 TO POPULATION, BECAUSE WE ARE NOT GOING TO COUNT POPULATION,
- 19 WHICH HAVE -- THAT CAN BE EXPECTED TO HAVE SIGNAL STRENGTH
- 20 OF PARTICULAR, PARTICULAR LEVELS.
- 21 AND I ASSURE YOU FURTHER, SIR, THAT WE ARE REALLY
- 22 INVOLVED IN A QUIBBLE HERE BECAUSE THERE WOULD BE VERY
- 23 LITTLE DIFFERENCE. AS A MATTER OF FACT, YOU PROBABLY
- 24 COULDN'T SEE A DIFFERENCE IN THE MAPS, WHETHER YOU BASE IT
- 25 ON THE GEOMETRIC CENTER OF A CELL OR YOU USE THE CENTROIDS

- 1 OF THE U.S. CENSUS CELL BLOCKS.
- 2 Q. WELL, IF I UNDERSTAND YOU CORRECTLY, YOU'RE SAYING IT
- 3 WOULDN'T MAKE A DIFFERENCE, EVEN THOUGH HE DID IT ONE WAY
- 4 WHICH APPEARS TO BE WRONG, IF HE DID IT ANOTHER WAY WHICH
- 5 WOULD BE RIGHT. IT WOULD STILL COME OUT LOOKING
- 6 SUBSTANTIALLY THE SAME, IS THAT WHAT YOU ARE SAYING?
- 7 A. MR. SCHWARTZ, I HAVE TO PROTEST THIS BUSINESS OF WRONG
- 8 AND RIGHT. THE COMMISSION ACKNOWLEDGES IN THIS PARAGRAPH WE
- 9 HAVE BEEN TALKING ABOUT THAT WHEN YOU'RE NOT INTERESTED IN
- 10 POPULATIONS, THE GEOMETRIC CENTER, THERE IS NOTHING WRONG
- 11 ABOUT USING THE GEOMETRIC CENTER.
- 12 Q. WHERE DOES IT SAY WHEN YOU'RE NOT INTERESTED IN
- 13 | POPULATION?
- 14 A. OTHERWISE, IT IS THE GEOMETRIC CENTER.
- 15 Q. NOW, LET'S JUST FOCUS ON THE SENTENCE, MR. COHEN. THE
- 16 FIRST THING WE HAVE DONE IS IDENTIFY CELLS. WE AGREE WITH
- 17 THAT, RIGHT?
- 18 A. THERE ARE TWO TYPE OF CELLS WE ARE TALKING ABOUT
- 19 HOWEVER. THERE IS A CELL WHICH CAN BE TOTALLY INDEPENDENT
- 20 OF POPULATION AND THERE IS A CELL WHICH IS BASED UPON
- 21 U.S. CENSUS CELL BLOCKS.
- 22 Q. NOW, LET'S JUST TAKE A LOOK AT THE PARAGRAPH AGAIN. IT
- 23 SAYS THE AREA SUBJECTED TO CALCULATION IS DIVIDED INTO
- 24 RECTANGULAR CELLS, CORRECT?
- 25 A. YES.

- 1 Q. RECTANGLES, RIGHT?
- 2 A. YES.
- 3 Q. SOME NUMBER OF KILOMETERS ON ONE SIDE AND SOME NUMBER
- 4 OF KILOMETERS ON THE OTHER, RIGHT?
- 5 A. SIR, IT'S RECTANGULAR BECAUSE IT'S BASED ON LATITUDE
- 6 AND LONGITUDE. BECAUSE THE -- AS I POINTED OUT BEFORE, IF
- 7 YOU LOOK AT LINES OF EQUAL LONGITUDE, THEY CONVERGE AS THE
- 8 LATITUDE CHANGES. SO IT ISN'T QUITE RECTANGULAR. BUT A
- 9 RECTANGLE IS CLOSER THAN A SQUARE, AS FAR AS THE USING
- 10 LATITUDE AND LONGITUDE FOR THE DEFINITION OF THE BOX.
- 11 Q. NOW, WAIT A MINUTE. NOW YOU'RE DISAGREEING WITH THE
- 12 FIRST SENTENCE OF THE WAY THE F.C.C. DESCRIBES APPLICATION
- 13 OF WHAT YOU CONSIDER TO BE --
- 14 A. -NO.
- 15 Q. -- METHODOLOGY --
- 16 A. NO, SIR, I AM NOT DISAGREEING WITH THE F.C.C. IN ANY
- 17 FASHION. BUT AS I POINTED OUT BEFORE, YOU CAN EITHER USE
- 18 LINEAR UNITS OF DISTANCE IN THE LONGLEY-RICE PROCESS OR YOU
- 19 CAN USE LATITUDE AND LONGITUDE. AND IF YOU USE LATITUDE AND
- 20 LONGITUDE TO DEFINE YOUR CELL, IT'S NOT SQUARE. I MEAN YOUR
- 21 | SQUARE BLOCK -- YEAH, YOUR CELL -- IT'S NOT SQUARE. IT
- 22 CONVERGES TO THE NORTH.
- 23 Q. WELL, LET'S BACK UP HALF A STEP. DURING YOUR DIRECT
- 24 EXAMINATION, YOU WERE ASKED QUESTIONS ABOUT WHETHER THE
- 25 F.C.C. HAS ADOPTED THE LONGLEY-RICE METHODOLOGY FOR ANY

- 1 PURPOSE. REMEMBER THAT?
- 2 A. YES, SIR.
- 3 Q. AND YOU TOLD MR. OLSON IT HAD, RIGHT?
- 4 A. YES, SIR.
- 5 Q. AND HE ASKED YOU WHERE YOU COULD FIND IT IN SUM AND
- 6 SUBSTANCE, AND YOU TOLD HIM O.E.T. BULLETIN NUMBER 69,
- 7 RIGHT?
- 8 A. YES, SIR.
- 9 Q. THAT'S THE F.C.C. BIBLE ON LONGLEY-RICE, RIGHT?
- 10 A. YES, SIR.
- 11 Q. OKAY. AND CORRECT ME IF I'M WRONG, BUT THE
- 12 PARAGRAPH AND THE SECTION THAT SEEMS TO MOST DIRECTLY
- 13 ADDRESS HOW YOU'RE GOING TO APPLY THE LONGLEY-RICE
- 14 METHODOLOGY IS THE ONE CALLED "APPLICATION OF THE
- 15 LONGLEY-RICE METHODOLOGY, " RIGHT? I MEAN I'M READING THE
- 16 RIGHT PARAGRAPH.
- 17 A. YOU'RE READING THE RIGHT PARAGRAPH, YES, SIR.
- 18 Q. OKAY. NOW, THE FIRST SENTENCE SAYS, "THE AREA SUBJECT
- 19 TO CALCULATION IS DIVIDED INTO RECTANGULAR CELLS, " RIGHT?
- 20 A. RIGHT.
- 21 Q. THAT'S WHAT THE F.C.C. SAYS.
- 22 A. RIGHT.
- 23 Q. OKAY. AND THEN IT SAYS THE LONGLEY-RICE POINT-TO-POINT
- 24 PROPAGATION MODEL VERSION 1.2.2 IS APPLIED TO A POINT IN
- 25 EACH CELL, RIGHT?

- 1 A. YES, YOU ARE READING CORRECTLY.
- 2 Q. THANK YOU.
- 3 I'M GOING TO SKIP ONE SENTENCE. FOR CELLS WITH
- 4 POPULATION, THE POINT CHOSEN BY THE F.C.C. COMPUTER PROGRAM
- 5 IS THE POPULATION CENTROID, RIGHT?
- 6 A. RIGHT.
- 7 Q. DID MR. BRANDENBURG --
- 8 A. WOULD YOU PLEASE READ THE NEXT PHRASE?
- 9 Q. I'LL BE HAPPY TO IN A SECOND.
- DID MR. BRANDENBURG USE THE LONGLEY-RICE
- 11 POINT-TO-POINT PROPAGATION MODEL VERSION 1.2.2 WITH RESPECT
- 12 TO ANY CELLS IN THESE 43 MARKETS IN WHICH PEOPLE LIVED?
- 13 A. WELL, YES, IF ONE IS INTERESTED IN DETERMINING HOW MANY
- 14 PEOPLE ARE LIVING IN THAT VICINITY.
- 15 Q. SO --
- 16 A. THE COMMISSION ACKNOWLEDGES IN THE PHRASE THAT I ASKED
- 17 YOU TO READ, WHICH YOU STOPPED SHORT OF READING, OTHERWISE,
- 18 A GEOMETRIC CENTER, THEY ACKNOWLEDGE THERE THAT IF YOU'RE
- 19 NOT INTERESTED IN POPULATION, THE GEOMETRIC CENTER OF THE
- 20 CELL IS A SUITABLE THING TO USE.
- THE PURPOSE --
- 22 Q. GO AHEAD, I'M SORRY.
- 23 A. -- AS SPELLED OUT IN THIS PARAGRAPH, THE PURPOSE HERE
- 24 IS TO MAKE SERVICE AND INTERFERENCE CALCULATIONS WHICH
- 25 INVOLVE POPULATIONS AFFECTED EITHER BY SERVICE OR

- 1 INTERFERENCE. SINCE WHAT WE ARE, WE WERE SOLELY INTERESTED
- 2 IN WERE GENERAL AREAS WHERE SIGNAL INTENSITIES OF PARTICULAR
- 3 LEVELS WERE EXCEEDED, WE HAD NO INTEREST IN HOW MANY PEOPLE
- 4 MIGHT BE LIVING IN THESE PARTICULAR AREAS. SO THE
- 5 "OTHERWISE" PORTION OF THAT SENTENCE IS EMPLOYED.
- 6 Q. WELL, ACTUALLY --
- 7 A. BECAUSE WE DID NOT, WE DID NOT ASK -- I DID NOT ASK
- 8 MR. BRANDENBURG OR DATAWORLD TO RELATE THIS TO THE
- 9 U.S. CENSUS.
- 10 O. ACTUALLY, YOU HAD A LOT OF INTEREST IN WHERE PEOPLE
- 11 WERE LIVING. THAT'S WHAT YOU WERE TRYING TO PROVE THAT
- 12 PEOPLE WERE LIVING IN THESE AREAS, ISN'T THAT RIGHT? WASN'T
- 13 THAT THE PURPOSE OF YOUR MISSION?
- 14 A. I WAS INTERESTED ONLY IN WHERE PEOPLE HAD SIGNED UP FOR
- 15 PRIMETIME 24.
- 16 O. THAT'S WHERE THEY LIVE.
- 17 A. NOW, AS I HAD, AS I HAD SAID TO YOU BEFORE, THE NET
- 18 EFFECT IN CREATING MAPS OF THIS KIND WOULD HAVE LITTLE
- 19 DIFFERENCE IF YOU USED THE CENSUS BLOCK INFORMATION RATHER
- 20 THAN JUST CELLS WHICH ARE, WHICH ARE BASED ON PARTICULAR
- 21 NUMBER OF SECONDS OR MINUTES OF LATITUDE AND LONGITUDE.
- BUT IF YOU'RE GOING TO MAKE AN ANALYSIS OF THE
- 23 NUMBER OF PEOPLE RECEIVING SERVICE AND THE NUMBER OF PEOPLE
- 24 RECEIVING INTERFERENCE, THEN IN ORDER TO EMPLOY THE
- 25 U.S. CENSUS DATA, IT'S NECESSARY TO USE THE CENTROIDS WHICH

- 1 ARE DETERMINED BY THE U.S. CENSUS FOR EACH OF THE BLOCKS IN
- 2 WHICH THEY COUNTED POPULATION.
- 3 Q. NOW, MR. COHEN, ISN'T THE FAIR READING OF THE SENTENCE
- 4 WITH THE SEMICOLON IN IT THAT IF YOU'RE DEALING WITH A CELL
- 5 WHERE PEOPLE LIVE, YOU USE THE POPULATION CENTROID; AND IF
- 6 YOU'RE DEALING WITH A CELL WHERE THERE IS ONLY CATTLE, YOU
- 7 USE THE GEOMETRIC CENTER? ISN'T THE ONLY FAIR READING OF
- 8 THIS DOCUMENT?
- 9 A. NO, IT'S NOT, MR. SCHWARTZ.
- 10 YOU HAVE TO READ IT IN THE SENSE THAT THE F.C.C.
- 11 IS GETTING AT IN DETERMINING THE PEOPLE RECEIVING SERVICE
- 12 AND THE PEOPLE THAT MIGHT BE AFFECTED BY INTERFERENCE.
- 13 THEREFORE, WHERE PEOPLE LIVE, IT'S NECESSARY TO USE
- 14 U.S.-CENSUS DATA AND THE CENTROIDS OF THE U.S. CENSUS
- 15 BLOCKS. IF YOU'RE NOT TRYING TO MAKE THAT KIND OF A
- 16 DETERMINATION AND YOU NEED NOT GO TO THE U.S. CENSUS DATA
- 17 BASE, YOU CAN SIMPLY SPECIFY THE SIZE OF THE BLOCK BY GEO --
- 18 BY LATITUDE AND LONGITUDE OR BY PHYSICAL DISTANCES.
- 19 Q. CAN YOU POINT THE COURT TO ANY LANGUAGE IN O.E.T.
- 20 BULLETIN NUMBER 69 THAT REMOTELY SUPPORTS THAT
- 21 INTERPRETATION OF THAT SENTENCE?
- 22 MR. OLSON: ASKED AND ANSWERED, YOUR HONOR.
- THE COURT: OVERRULED.
- 24 A. IT'S THIS WHOLE PARAGRAPH, MR. SCHWARTZ. YOU READ THE
- 25 PARAGRAPH. AND THE PURPOSE OF THE EXERCISE THAT THE

- 1 COMMISSION IS DESCRIBING IS TO DETERMINE SERVICE AND
- 2 INTERFERENCE. AND WHAT THEY'RE TALKING ABOUT IS SERVICE TO
- 3 PEOPLE AND INTERFERENCE TO PEOPLE, WHICH IS WHY IT IS
- 4 NECESSARY TO USE THE CENTROIDS OF THE CENSUS BLOCKS IN ORDER
- 5 THAT YOU CAN TAKE ADVANTAGE OF THE U.S. CENSUS DATA BASE.
- 6 BUT WHEN WE ARE NOT USING THE U.S. CENSUS DATA BASE IN ANY
- 7 FASHION, WE DON'T USE THE CENTROIDS OF THE CENSUS BLOCKS.
- 8 Q. WELL, IN ANY EVENT --
- 9 A. AND I STILL INSIST THAT IF YOU DO IT EITHER WAY, THAT
- 10 THE PICTURE'S GOING TO BE PRETTY MUCH THE SAME.
- MR. SCHWARTZ: YOUR HONOR, I WILL MOVE TO STRIKE
- 12 THE GRATUITOUS ADDITION.
- 13 THE COURT: NO, I WILL NOT STRIKE THAT. THAT
- 14 MOTION IS DENIED.
- 15 BY MR. SCHWARTZ:
- 16 Q. IN ANY EVENT, WHETHER IT'S WHAT THE F.C.C. SUGGESTS
- 17 SHOULD BE DONE OR OTHERWISE, WHAT MR. BRANDENBURG DID TO THE
- 18 BEST OF YOUR KNOWLEDGE WAS USE THE GEOMETRIC CENTER --
- 19 A. THAT'S RIGHT.
- 20 O. -- FOR EACH OF THE CELLS?
- 21 A. YES.
- 22 Q. AND YOU'RE SURE OF THAT?
- 23 A. I'M QUITE SURE OF THAT. HE DID NOT GO TO THE U.S.
- 24 CENSUS DATA BASE TO GET HIS CENTROIDS.
- 25 Q. AS SURE AS YOU ARE THAT MR. STIELPER FOUND ALL THE 400

- AND THE NEXT THING YOU HAVE TO DO OR A NEXT THING
- 2 YOU HAVE TO DO IS FIGURE OUT WHAT'S THE TIME VARIABILITY.
- 3 RIGHT?
- 4 A. YES, SIR.
- 5 Q. BECAUSE WE'RE TALKING X PERCENT OF THE HOUSES X PERCENT
- 6 OF THE TIME?
- 7 A. MR. SCHWARTZ, I WISH YOU WOULDN'T SAY "X PERCENT OF THE
- 8 HOUSES, " BECAUSE WE'RE TALKING ABOUT X PERCENT OF LOCATIONS.
- 9 THERE MAY OR MAY NOT BE HOUSES THERE.
- 10 Q. ALL RIGHT. X PERCENT OF THE LOCATIONS, X PERCENT OF
- 11 THE TIME -- Y PERCENT OF THE TIME, RIGHT?
- 12 A. YES, SIR.
- 13 Q. SO YOU'VE GOT TO SET AT LEAST X AND Y, RIGHT?
- 14 A. YES, SIR.
- 15 Q. AND WHEN YOU TESTIFIED AS TO THE APPLICATION OF THE
- 16 LONGLEY-RICE METHOD AS YOU HAD MR. BRANDENBURG EMPLOY IT ON
- 17 YOUR DIRECT EXAM, YOU TALKED ABOUT THE LOCATION VARIABILITY
- 18 AND YOU TALKED ABOUT THE TIME VARIABILITY AND YOU TALKED
- 19 ABOUT THE ANTENNA HEIGHT FOR THE HOUSE AND THE ANTENNA
- 20 HEIGHT FOR THE STATION AND ITS EFFECTED RADIATED POWER, BUT
- 21 THERE IS ONE THING, AT A MINIMUM, YOU LEFT OUT, ISN'T THERE?
- 22 A. WELL, THERE'S PROBABLY A NUMBER OF THINGS, BUT WHAT ARE
- 23 YOU REFERRING TO?
- 24 Q. WHAT ABOUT THE STATISTICAL CONFIDENCE LEVEL?
- 25 A. THAT IS CORRECT. THERE IS AN ALSO A -- ONE CAN PUT IN

- 1 A STATISTICAL CONFIDENCE LEVEL IN ADDITION.
- 2 O. YOU HAVE TO PUT IT IN.
- 3 A. IT'S NOT IN, IT'S NOT IN TERMS OF A CONFIDENCE LEVEL,
- 4 HOWEVER; IT'S IN TERMS OF THE NUMBER OF DECIBELS THAT YOU
- 5 MIGHT WANT TO ADD OR SUBTRACT IN ORDER TO AFFECT THE
- 6 STATISTICAL PROBABILITY.
- 7 Q. LET'S TAKE THIS ONE STEP AT A TIME. YOU DIDN'T TELL
- 8 MR. OLSON THAT YOU HAD TO FOCUS ON THAT FACTOR, DID YOU?
- 9 A. I DON'T THINK THAT WAS MENTIONED, NO.
- 10 Q. AND WHAT STATISTICAL CONFIDENCE FACTOR DID YOU HAVE
- 11 MR. BRANDENBURG USE?
- 12 A. IT'S NOT, AS I SAID, IT'S NOT A STATISTICAL CONFIDENCE
- 13 FACTOR; IT'S THE NUMBER OF DECIBELS THAT YOU MIGHT WANT TO
- 14 ADD OR SUBTRACT FOR WHATEVER REASON. AND THE -- AND WE
- 15 ADDED NO DECIBELS NOR DID WE SUBTRACT ANY DECIBELS FROM THE
- 16 MEDIAN RESULT.
- 17 Q. NOW, CAN YOU TAKE A LOOK AT THE SAME PAGE OF O.E.T.
- 18 TECHNICAL BULLETIN THAT WE HAVE BEEN FOCUSING ON AND LOOK AT
- 19 THE LAST PARAGRAPH, PLEASE?
- 20 A. YES, SIR.
- 21 O. IN THE SECOND TO LAST SENTENCE HERE DESCRIBING HOW TO
- 22 USE THE LONGLEY-RICE SYSTEM FOR THE PURPOSES THE F.C.C. HAD
- 23 | IN MIND HERE SAYS, THE PERCENT CONFIDENCE IS SET AT 50
- 24 PERCENT, CORRECT?
- 25 A. YES. AND THE WAY -- EXCUSE ME -- THE WAY YOU SET THAT

- 1 AT 50 PERCENT IS TO INDICATE AS AN INPUT PARAMETER -- THANK
- 2 YOU, SIR -- AS AN INPUT PARAMETER THAT YOU ARE NEITHER
- 3 SUBTRACTING NOR ADDING -- THANK YOU -- ANY DECIBELS TO THE
- 4 RESULTS.
- 5 Q. AND IF I UNDERSTAND WHAT YOU'RE SAYING, IF I UNDERSTAND
- 6 IT, WHEN YOU HAD -- WHEN YOU SUPERVISED MR. BRANDENBURG'S
- 7 PREPARATION OF THE DOTLESS MAPS, YOU HAD HIM USE THIS 50
- 8 CONFIDENCE LEVEL, IS THAT RIGHT?
- 9 A. THAT'S RIGHT. HE WAS NOT TO APPLY ANY NUMBER OF
- 10 DECIBELS, EITHER POSITIVE OR NEGATIVE, WHICH WOULD DEPART
- 11 FROM THE 50 PERCENT CONFIDENCE FACTOR.
- 12 Q. AND IF I UNDERSTAND CORRECTLY THEN, YOU'RE TALKING
- 13 ABOUT THE WAY YOU PROGRAMMED THE MODEL FOR YOUR PURPOSES, 50
- 14 PERCENT OF THE LOCATIONS 50 PERCENT OF THE TIME WITH ONLY A
- 15 50 PERCENT CONFIDENCE LEVEL, IS THAT RIGHT?
- 16 A. THANK YOU, SIR.
- YES, SIR, THAT'S STANDARD METHOD OF PROCEEDING.
- 18 Q. QUITE APART FROM WHETHER IT'S STANDARD FOR SOME
- 19 PURPOSES, THAT'S WHAT YOU DID, OR YOU AT LEAST SUPERVISED
- 20 MR. BRANDENBURG DOING IT HERE, CORRECT?
- 21 A. THAT IS CORRECT, I USED THE SAME PROCEDURES AS THE
- 22 F.C.C.
- 23 Q. AND IF YOU WANTED TO HAVE A GREATER CONFIDENCE LEVEL IN
- 24 THE CREATION OF THE DOTLESS MAPS, THE PREPARATION OF WHICH
- 25 YOU SUPERVISED HERE, YOU COULD HAVE SET THAT CONFIDENCE

- 1 FACTOR AT SAY 95 PERCENT, THE WAY STATISTICIANS TYPICALLY
- 2 DO, CORRECT?
- 3 A. YES, BUT THE APPROACH HERE IS QUITE DIFFERENT.
- 4 Q. I'M AWARE OF THAT. BUT THAT'S, THAT'S JUST THE POINT.
- 5 YOU LEFT IT AT 50 PERCENT, CORRECT?
- 6 A. YES, SIR.
- 7 O. AND YOU ARE AWARE GENERALLY THAT WHEN STATISTICIANS.
- 8 YOU MAY NOT BE AN EXPERT STATISTICIAN, BUT YOU ARE AWARE
- 9 THAT WHEN STATISTICIANS WANT TO HAVE SUFFICIENT CONFIDENCE
- 10 TO MAKE STATISTICAL CONCLUSIONS OR DRAW STATISTICAL
- 11 CONCLUSIONS, THEY ARE USUAL UP AT THAT 95 PERCENT LEVEL,
- 12 AREN'T THEY?
- 13 A. YOU'RE RIGHT, SIR. >
- 14 Q. NOW, YOU MENTION THERE ARE SOME OTHER VARIABLES THAT
- 15 HAVE TO BE PROGRAMMED INTO THE LONGLEY-RICE MODEL THAT HAVE
- 16 TO DO WITH CLIMATE AND GROUND COVER AND VARIOUS OTHER SUCH
- 17 FACTORS, RIGHT?
- 18 A. YES, SIR.
- 19 Q. AND SOMEBODY'S GOT TO MAKE SOME DECISION AS TO HOW TO
- 20 PROGRAM EACH AND EVERY ONE OF THOSE INPUT PARAMETERS BEFORE
- 21 SOMEBODY LIKE MR. BRANDENBURG CAN CREATE THE DOTLESS MAPS
- 22 THAT YOU SAY WERE CREATED HERE, RIGHT?
- 23 A. THAT IS CORRECT, SIR.
- 24 Q. NOW, WHEN MR. BRANDENBURG FINISHED THE WORK YOU WERE
- 25 SUPERVISING CREATING THE LONGLEY-RICE MAPS WITH THOSE

- 1 Q. AND WHEN YOU SAY ATTENUATE, IF YOU'RE SOMEHOW BLOCKED
- 2 BY A FOREST, EVEN IN THE ABSENCE OF TERRAIN CHARACTERISTICS
- 3 OR BUILDINGS, YOUR TELEVISION SIGNAL CAN BE BELOW THE LEVEL
- 4 NECESSARY TO GET AN ACCEPTABLE PICTURE, RIGHT?
- 5 A. THAT'S CORRECT.
- 6 Q. AND AS WITH BUILDINGS, IDEALLY, AS A BROADCAST
- 7 TELEVISION ENGINEER, YOU'D LOVE TO SEE SOME METHOD BY WHICH
- 8 VEGETATION COULD BE TAKEN INTO ACCOUNT IN PREDICTING
- 9 BROADCAST TELEVISION SIGNAL PROPAGATION, RIGHT?
- 10 A. IT WOULD BE VERY INTERESTING.
- 11 Q. AND WHETHER YOU AGREE WITH THE WAY HE'S DONE IT OR NOT,
- 12 | THAT'S WHAT MR. BIBY HAS TRIED TO DO, CORRECT?
- 13 A. THAT'S CORRECT.
- 14 MR. SCHWARTZ: YOUR HONOR, MAY I HAVE JUST A
- 15 MOMENT, PLEASE?
- THE COURT: YES, YOU MAY.
- 17 (DISCUSSION HAD OFF THE RECORD.)
- 18 BY MR. SCHWARTZ:
- 19 Q. DO YOU STILL HAVE YOUR EXPERT REPORT BEFORE YOU?
- BY THE WAY, WE APPRECIATE YOU HANGING IN HERE,
- 21 MR. COHEN. WE ARE TRYING TO GET YOU BACK TO THE D.C. AREA.
- 22 A. YES, I HAVE MY EXPERT REPORT.
- 23 Q. I WANT TO DIRECT YOUR ATTENTION TO EXHIBITS J AND K,
- 24 WHICH, FOR THE RECORD, WERE ADMITTED ALONG WITH THE REST OF
- 25 US, OVER OUR OBJECTION, AND JUST ASK YOU TO BRIEFLY

- 1 REFAMILIARIZE YOURSELF WITH TABS J AND K TO WHAT I GUESS IS
- 2 EXHIBIT 558.
- 3 A. YES, SIR.
- 4 Q. AND TO KEEP THINGS MOVING HERE, THESE ARE THE TABULATED
- 5 TEST RESULTS FOR WHAT WAS DONE UNDER YOUR SUPERVISION IN THE
- 6 AREA OF PITTSBURGH, RIGHT?
- 7 A. YES, SIR.
- 8 Q. ACTUALLY, J IS PITTSBURGH AND K IS JOHNSTOWN,
- 9 PENNSYLVANIA, RIGHT?
- 10 A. YES, SIR.
- 11 Q. AND THIS IS ONE OF THESE SITUATIONS WHERE YOU WANTED TO
- 12 DOUBLE-CHECK AND SEE WHETHER THERE WAS A NEARBY FOX
- 13 AFFILIATE WHICH WOULD HAVE AN OVERLAPPING SERVICE AREA WITH
- 14 THE FOX AFFILIATE W.P.G.H./CHANNEL 53 IN PITTSBURGH THAT WAS
- 15 THE SUBJECT OF THE TESTING, IS THAT FAIR?
- 16 A. YES, SIR.
- 17 Q. NOW, YOU TALKED ABOUT HOW THERE COULD BE A SIGNIFICANT
- 18 RANGE IN THE READINGS YOU RECEIVED WITH SIGNAL INTENSITY
- 19 MEASUREMENTS OVER A 100-FOOT RUN, RIGHT?
- 20 A. YES, SIR.
- 21 O. AND IF YOU TAKE A LOOK AT SOME OF THESE ENTRIES HERE
- 22 FOR W.P.G.H., FOR EXAMPLE, ITEM 242 OR LOCATION NUMBER 242,
- 23 DO YOU SEE THAT, 301 FROSTVIEW DRIVE?
- 24 A. YES, SIR, I DO.
- 25 Q. THE MINIMUM IS 22.7, THE MAXIMUM IS 63 AND A HALF

I RIGHT?

- 2 A. YES, SIR.
- 3 Q. THE NEXT ITEM DOWN YOU GOT A MINIMUM 49.1 AND MAXIMUM
- 4 81.2?
- 5 A. YES, SIR.
- 6 Q. BY THE WAY, THIS CHANNEL 53 IS A U.H.F. STATION.
- 7 WHAT'S THE GRADE B VALUE, AS YOU DEFINE IT?
- 8 A. 64 D.B.U.
- 9 Q. AND TAKE A LOOK DOWN AT NUMBER 387. JUST BY WAY OF
- 10 EXAMPLE, THE RANGE IS FROM 48.3 TO 82.6, RIGHT?
- 11 A. YES, SIR.
- 12 Q. AND DOWN, AS YOU MOVE DOWN THE PAGE, NUMBER 590, THE
- 13 RANGE CAN BE AS WIDE AS 24 TO 71, RIGHT?
- 14 A. YES, SIR.
- 15 Q. AND THERE'S AN EXAMPLE, JUST LOOKING AT NUMBER 590,
- 16 WHERE THE MINIMUM IS WAY BELOW YOUR GRADE B VALUE AND THE
- 17 MAXIMUM SOMEWHAT ABOVE, RIGHT?
- 18 A. THAT'S RIGHT.
- 19 Q. NOW, IF YOU WANTED TO BE ESPECIALLY SURE THAT THE
- 20 PEOPLE THAT YOU WERE TESTING DID NOT HAVE ADEQUATE SIGNAL
- 21 STRENGTH, YOU COULD FOCUS ON THE MINIMUMS, RIGHT?
- 22 A. IN MY MIND, THAT WOULD BE ABSURD.
- 23 Q. WELL, IF YOU WANTED TO ADOPT THE MOST COMPUTER -- I'M
- 24 | SORRY -- CONSUMER FRIENDLY USE OF THIS DATA, AND YOU ONLY
- 25 WANTED TO DISQUALIFY FOR SATELLITE SERVICE PEOPLE, YOU COULD

- 1 BE ABSOLUTELY SURE GOT ADEQUATE SIGNAL STRENGTH AS YOU
- 2 DEFINE IT, YOU COULD USE THE MINIMUMS, RIGHT?
- 3 A. AS I STATED BEFORE, THAT WOULD BE ABSURD BECAUSE --
- THE COURT: WAIT. WHETHER IT'S ABSURD OR NOT,
- 5 COULD YOU DO THAT?
- 6 THE WITNESS: I COULDN'T, NO.
- 7 THE COURT: ALL RIGHT.
- 8 BY MR. SCHWARTZ:
- 9 Q. AND HAVE YOU STOPPED WITH RESPECT TO PITTSBURGH, AND
- 10 PARTICULARLY W.P.G.H./CHANNEL 53, TO SEE WHAT THE RESULTS
- 11 WOULD BE IN IF YOU ONLY USE THE MINIMUM THAT YOU RECORDED IN
- 12 THE HUNDRED FOOT RUN AS YOUR WAY OF DETERMINING WHETHER
- 13 SOMEONE WAS ELIGIBLE OR NOT FOR NETWORK SERVICE UNDER THE
- 14 SATELLITE HOME VIEWER ACT?
- 15 A. NO, SIR, I'VE MADE NO SUCH ANALYSIS.
- 16 Q. WOULD IT SURPRISE YOU TO LEARN THAT THREE-QUARTERS
- 17 APPROXIMATELY OF THE 100 PEOPLE YOU TESTED FOR CHANNEL 53
- 18 WOULD BE ELIGIBLE UNDER THAT STANDARD?
- 19 A. NO, IT WOULDN'T SURPRISE ME.
- 20 Q. IT WOULD NOT?
- 21 A. NO.
- 22 O. AND THAT WOULD -- AND EVEN IF YOU TOOK IN THE
- 23 JOHNSTOWN, PENNSYLVANIA STATION, WHICH IS APPARENTLY NEAR
- 24 W.P.G.H. AND APPLY THE SAME APPROACH, IT WOULDN'T SURPRISE
- 25 YOU TO LEARN THAT THREE-QUARTERS OF THE PEOPLE WOULD BE